A-5 13/5/19.

Original/Duplicate/Triplicate

P.W.G. 17 | 1st and final bill | **CONTRACT CERTIFICATE** | Reference paras 158 & 170

NO

Division Yelahanka | Sub division Yelahanka New Town | AEE, YSTSD

Bills received No | YNK-DBR No. 09 Date 16.05.19 | Sub-divisional / Divisional / Head of account | Cash/SBR No. 5 | Date 19-20

Sheduled Docket No | Date 4/5/19

Name of work(as per sanctioned estimate) :- **NAME OF WORK :Construction of RO plant near Dairy circle in ward no 03, Attur**

Work Code:003-18-000056 1771

Name of contractor and full address :- N Rajesh (K Flow RO) No 541, 6th Main,, 2nd block, 41st cross, behind Vijaya Bank, Rajajinagara, Bangalore-10.

Reference to agreement No :- 115 | **Estimated cost : 15.00** | Work order No :115, dt:21/02/2019

Certified that the measurments were taken by me on 11/4/2019 and recorded on pages 117901 to 117921/2 of measurment book No 1180/2018-19 and the work is satisfactorily executed by the contractor.

Signature of contractor | Asst. Engineer | 11/4/2019

Certified that the measurments were taken by me on 11/04/19 and recorded correct.The work is satisfactorily executed.
Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer 11/04

II MEMORANDUM OF PAYMENT

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

1) Total value of work done or supplies as per A/c within	Total	1375700/-
2) Deduct amount to be held in reserve being-----percent Rs----------%--------	Cust	12283/-
3) Balance---	SWST	12283/-
4) Deduct payments	~~IT~~	~~13757/-~~
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount	LC	13757/-
b) Cost of payments/stores or other materials supplied now made recovery of Amount paid on this bill by cheque/cash	CBT	1376/-
Total	LR	5474/-
5). Balance being unpaid value of work done held in reserve	NSI	58930/-
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor.		
UN ADJUSTED ITEMS		
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		
	Net =	1316770/-

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum
(in final settlement of all demand)

Witness
1)
2)

Dated signature of contractor
paid by me cheque No dated

Cash Rs.....

Date Initials of officer making payment

Reciept Stamp

Audited & Admitted for Rs. 1375700/-
Rupees One Crore Thirty Seven Lakhs Seventy Thousand
1316770/- by Cheque
and Rs. 58930/- by adjustment

Date
Accts. Supdt
Yelahanka Division
BBMP

Executive Engineer
Exe. Engineer
Yelahanka Division
BBMP

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-1.1: Earth work in surface excavation in hard soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.2/ PWD SR 2016-17	Cum			7.50	239.00	1792.50	7.50	1792.50
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2016-17	Cum			18.63	305.00	5682.15	18.63	5682.15
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2016-17)	Cum			26.13	80.00	2090.40	26.13	2090.40

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
4	KSRB 1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	Cum			3.96	5250.00	20790.00	3.96	20790.00
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, No. 6/ Item No. 2.10/ PWD SR 2016-17	Cum			8.10	130.00	1053.00	8.10	1053.00
6	KSRB 5.2.3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	Cum			12.80	4520.00	57856.00	12.80	57856.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
7	KSRB 5.3-3 Providing and constructing granite/trap/basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2016-17	Cum			4.61	5400.00	24894.00	4.61	24894.00
8	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 112/ Item No. 15.1 PWD SR 2016-17	Sqm			10.24	100.00	1024.00	10.24	1024.00
9	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed 2008 machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum			4.52	6490.00	29334.80	4.52	29334.80

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
10	KSRB 4.1-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.37/ PWD SR 2016-17	Sqm			9.86	290.00	2859.40	9.86	2859.40
11	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27/ PWD SR 2016-17	Sqm			43.72	1000.00	43720.00	43.72	43720.00
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Qnl			3.84	6050.00	23232.00	3.84	23232.00
13	KSRB 15.3.1 : Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever reuired smooth rendering, : Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications. Page No. 122/ Item No. 15.11/ PWD SR 2016-17	sqm			97.68	160.00	15628.80	97.68	15628.80

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
14	FIXTURES for doors and windows Page No XIV SR 2016-17 VENTILATORS Sl No 395,385,402,386 Hinges 5" heavyduty	Each			4.00	30.00	120.00	4.00	120.00
	bottom lock nail	Each			10.00	40.00	400.00	10.00	400.00
	MS Clamps	Each			8.00	35.00	280.00	8.00	280.00
	Brass screws 25mm	Each			50.00	2.00	100.00	50.00	100.00
15	Providing and fixing single shutter glass door of 12mm thick plain Toughened glass (Saint Gobain,Modi float).The door is fixed by using any approved make hardware fitting like patch fitting, pivot, Floor machine, locking arrangements and suitable SS door rails withFloral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, and as per specification. Page No.310/ Item No. 39.5PWD / PWD SR 216-17	sqm			4.50	12310.00	55395.00	4.50	55395.00
16	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring wit ha special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. Page No. 104/ Item No. 14.44 / PWD SR 2016-17	sqm			22.33	1154.00	25768.82	22.33	25768.82

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
17	KSRB 14.13.1.: Providing precast chequered mosaic tiles dark shade using ordinary grey cement for steps and flooring, with precast 20mm thick, using marble chips of approved colour 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:6, mix, jointed with neat cement slurry mix with pigment to match the shade of tiles curing, rubbing, polishing , oxalic acid wash, wax polish, including cost of materials, labour, HOM machinery complete as per specifications. Page No.112/ Item No. 14.28 SR 2016-17	sqm			6.25	1042.00	6512.50	6.25	6512.50
18	KSRB 15-17.2: Applying priming coat over new wood surface and / or wood based surface after brushing with wood primer pink paint including preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 114/ Item No. 15.56 / PWD SR 2016-17	sqm			8.22	38.00	312.36	8.22	312.36
19	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page No.118 / Item No. 15.60.1 / PWD SR 2016-17	sqm			8.22	90.00	739.80	8.22	739.80

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
20	KSRB 15.15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. with primer. Page No.113/ Item No. 15.51.2 / PWD SR 2016-17	sqm			8.22	90.00	739.80	8.22	739.80
21	KSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. with primer,page No.114 item No.15.53.2/PWD SR 2016-17	sqm			4.50	90.00	405.00	4.50	405.00
22	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trpezoidal profiled sheet of approved make 1060mm width (1000mm cover width), 28-30 mm crest height with cest distance of 200 mm c/c with 2ribs at the center for stiffening , The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc –Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling /self tapping screws of 25mm length,to be fixed over the existing purlins, rafters channel and trusses. No. 300/ Item No. 38.30 PWD SR 2016-17 GI Sheet (0.5mm)	sqm			31.25	830.00	25937.50	31.25	25937.50

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
23	Steel ... fabricates structure with ... 14 Guage (3)" each 60 kg including cutting and transportation complete M.s Rectangular tubes 1 Length=35.00 kgs = 4.4x5 =22 /6 mtr per length = 4 length x 35 kgs M.s Rectangular tubes (purlines) 1 Length=35.00 kgs = 8x4 =32 /6 mtr per length = 6 length x 35 kgs Angels truss = 6 Nos x 2.5 Mtrs x 25kg/ mtrs =375 MS Pipe 50mm dia 14 guage = 6 Nos x 50kg (2 pipe =50 kgs = 100kgs	Kgs			825.00	94.00	77550.00	825.00	77550.00
1 P. No-5 I.No-2.3	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A KPWD ELectrica SR for 2014-15 2.3.1) Short point upto 3Mtr from tapping point to out let via switch box KPWD ELectrica SR for 2014-15	Point			2.00	140.00	280.00	2.00	280.00
	2.3.2) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box KPWD ELectrica SR for 2014-15	Point			2.00	200.00	400.00	2.00	400.00
	2.3.3) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box KPWD ELectrica SR for 2014-15	Point			2.00	330.00	660.00	2.00	660.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
2 P. No-02 I.No-1.1	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.1.1.1) 19/20mm dia 2mm thick KPWD ELectrica SR for 2014-15	mtr			20.00	50.00	1000.00	20.00	1000.00
3 P. No-6 I.No-2.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 2.5.2) 1.5 sqmm. KPWD ELectrica SR for 2014-15	Mtr			50.00	15.00	750.00	50.00	750.00
	2.5.1) 1 sqmm.	Mtr			50.00	13.00	650.00	50.00	650.00
	2.5.3) 2.5 sqmm.	Mtr			50.00	29.00	1450.00	50.00	1450.00
	2.5.4) 4 sqmm.	Mtr			50.00	40.00	2000.00	50.00	2000.00
4 P. No-3 I.No-1.6	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete 1.6.3) 10"x7"x3" (254x178x76mm)	Each			2.00	87.00	174.00	2.00	174.00
	1.6.4) 8"x6"x3" (203x152x76mm)	Each			1.00	70.00	70.00	1.00	70.00
	1.6.1) 12"x12"x3" (300x300x76mm)	Each			1.00	116.00	116.00	1.00	116.00
5 P. No-17 I.No-3.9	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. KPWD ELectrica SR for 2014-15	Sqcm			1225.00	0.25	306.25	1225.00	306.25

No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
6	S[illegible]g and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A KPWD ELectrica SR for 2014-15 3.15.1) 6Amps SP Switch P. No-18 I.No-3.8	nos			1.00	30.00	30.00	1.00	30.00
	3.15.3) 6Amps 3 way 5 pin Socket	nos			1.00	50.00	50.00	1.00	50.00
	3.15.6) 6 Amps lamp holder	nos			3.00	40.00	120.00	3.00	120.00
	3.15.13) 16/6 Amps combined plug and socket with control switch	nos			4.00	256.00	1024.00	4.00	1024.00
7 P. No 16 I.No-3.7	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer KPWD ELectrica SR for 2014-15	Each			1.00	440.00	440.00	1.00	440.00
8 P. No 54 I.No-6.2	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP KPWD ELectrica SR for 2014-15	Each			1.00	415.00	415.00	1.00	415.00
9 P. No 55 I.No-7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia KPWD ELectrica SR for 2014-15	No			1.00	270.00	270.00	1.00	270.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
10 P. No 44 I.No-6.7	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.1) 16Amps	Each			1.00	100.00	100.00	1.00	100.00
11 16/3	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on230 Volts A C Supply including 1No 4'-36/40 Watts fluorescent tube. c) Group 'C' KPWD ELectrica SR for 2014-15	Each			5.00	340.00	1700.00	5.00	1700.00
12 P. No-114 I.No-17.7	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. 17.7.1) On wall / ceiling / Rafter / Girders KPWD ELectrica SR for 2014-15	Each			5.00	90.00	450.00	5.00	450.00
13 65/1	SHORT POLES: (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm diat 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonary patch work etc., complete as per approved drawing (for single phase installations) KPWD ELectrica SR for 2014-15	Each			1.00	500.00	500.00	1.00	500.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
14 65/ 5	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes(single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reely insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above.(Page No.56 item No.5 a)Single Phase using 2 Wire e) 16 Sqmm KPWD Electrical SR for 2014-15	R mtr			55.00	80.00	4400.00	55.00	4400.00
	RAW WATER PUMP :							0.00	0.00
	Quantity	1 No.						0.00	0.00
	Type	fugal mono block						0.00	0.00
	MOC & Make	UKL						0.00	0.00
	Motor Rating	0.75 HP						0.00	0.00
	PRESSURE SAND FILTER :							0.00	0.00
	Quantity	1 No.						0.00	0.00
	Capacity	1000 LPH						0.00	0.00
	MOC & Make of housing	UKL							
	MOC & Make of cartridge	UKL							
	Capacity	1000 LPH							
	MOC & Make of vessel	UKL							
	Diameter	400 mm							
	Type of Valve	ngle - multiport							
	Media	port bed + sand							
	MICRON CARTRIDGE FILTER :								
	Quantity	1 set							
	Filter Rating	5 microns							
	Size	20" long							
	ANTISCALANT DOSING PUMPS :								
	Quantity	1 No.							
	Type	ctro - magnetic							
	Capacity	LPH @ 4 Bar							
	Dosing Tank	HDPE - 50 ltr							
	HIGH PRESSURE PUMP :								
	Quantity	1 No.,							

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	Capacity	1700 LPH							
	Type of Pump	Vertical Multistage Centrifugal Pump							
	MOC	SS 304							
	Motor Rating	HP, 3 Phase							
	Maximum Pressure	12 kg / cm2							
	Make	UKL							
	RESERVE OSMOSIS SYSTEM :								
	Quantity	1 No.							
	Capacity	1000 LPH							
	Module Type								
	Membrane Specifications {Polyamide}								
	Make of Membrane	UKL							
	No. of Membranes								
	UV STERILISER								
	Max. Treatment Flow	1 m3/hr							
	No. of Lamps	1 No.							
	Wattage	39W							
	Efficiency	99.99%							
	Material of construction	SS 304							
	PRODUCT WATER QUALITY :								
	Appearance	Crystal Clear							
	Abide by the ISO standards	Yes							
	S S Tank : 304 grade with 16 gauge 2000 Liters capacity								
	304 grade 10 gauge SS Pipe{with steam valve} 25 ft								
	COIN BOOTH DISPENSING UNIT								
	Raw Water Storage Tank	Function – For storage of raw water							
	Type/ MOC	Two/Three Layered PE tanks white / transparent in color made from virgin material of Food Grade Quality, suitable for the purpose of providing							
		Storage drinking / potable water, 5000liters capacity.							
	BBMP Approved Rate				1.00	842854.00	842854.00	1.00	842854.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
15	KSRR 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no142, PWD SR 2016-17)	Cum			11.20	80.00	896.00	11.20	896.00
16	KSRRB M100-1 Loading and un loading of stone boulder/Stoneaggregates/sand/kanker/Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2016-17)	Cum			11.20	90.00	1008.00	11.20	1008.00
17	KSRRB M2100 PCC 1 KSRRB M2100-10. Plain cement concrete M10 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 (P No. 218/27.18)	Cum			2.16	5970.00	12895.20	2.16	12895.20

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
18	Providing laying palin / reinforced cement concrete for Side Drain using M20 normal mix concrete with OPC cement at 300kgs with 20 mm and down size granite metal coarse aggregates @0.69cum and fine aggregates @machine mixed, Well compacted for wall and bottom including centering shuttering Cost of material HOM of machinery curing etc excluding cost of steel as per MORTH Specification No. 1500,1700,2200 walls & bottomof thicknes 15(Page. 265 / Item.No. 37.59.2)	Cum			4.61	7350.00	33883.50	4.61	33883.50
19	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr2016-17,p.no17,s.no4.46)	Tonne,s			0.23	60103.00	13823.69	0.23	13823.69
20	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).	Sqm			14.40	2000.00	28800.00	14.40	28800.00
						TOTAL	~~1376733.47~~ 13,75,700=00		~~1375733.47~~ 13,75,700=00

Certificate:

Certified that the contractor has work done satisfactorily.
The contractor has removed the debries from work site.
There is no dept. materials issued to the contractor.

Assistant Engineer
Ward No 03
11/4/2019

Assistant Excecutive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore-64
11/04